CLAIMS

- 1. A silicon based thin film solar cell, wherein a conducted type silicon based low refractive index layer and a silicon based interface layer are disposed in this order on a backside of a photoelectric conversion layer observed from a light incident side.
- 2. The silicon based thin film solar cell according to Claim 1, wherein the silicon based low refractive index layer has a refractive index not more than 2.5 at a wavelength of 600 nm.
- 3. The silicon based thin film solar cell according to Claim 1 and Claim 2, wherein a most abundantly existing constituent element, excluding silicon, in the silicon based low refractive index layer is not less than 25 atomic %.
- 4. The silicon based thin film solar cell according to claim 3, wherein the most abundantly existing constituent element is oxygen.
- 5. The silicon based thin film solar cell according to Claim 1 to Claim 4, wherein the silicon based low refractive index layer has a thickness of not less than 300 angstroms.
- 6. The silicon based thin film solar cell according to Claim 1 to Claim 5, wherein the silicon based low refractive index layer comprises a crystalline silicon component in the layer.
- 7. The silicon based thin film solar cell according to Claim 1 to Claim 6, wherein the silicon based interface layer has a thickness not more than 150 angstroms.
- 8. The silicon based thin film solar cell according to Claim 7, wherein the silicon based interface layer comprises a crystalline silicon component in the layer.